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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1. (Previously Presented) A method for determining the distance of a transceiver located within a lumen from the center of the lumen and for determining the radius of the lumen, the lumen cross-section being substantially circular at the transceiver location, the method applied on data received from a transceiver placed at a position within the lumen that is distance (r) from the center, the method comprising:

transmitting a signal of known velocity (v);

receiving two echo signals, the first signal related to a near section of the lumen and the second signal related to an outermost section of the lumen;

timing a first time difference between the transmission time of the transmitted signal and reception time of the first echo signal (t1) and a second time difference between the transmission time of the transmitted signal and the reception time of the second echo signal (t2);

calculating the distance of the transceiver from the center of the lumen r using the equation $r = (t1 - t2)v/4$; and

calculating the radius of the lumen R using the equation $R = (t1 + t2)v/4$.

2. (Cancelled)